PROJECT DESCRIPTION

GENERAL

THESE INTERSECTION IMPROVEMENTS INCLUDE ADDING ONE THROUGH LANE ON NORTHBOUND MD 355 AND ONE THROUGH LANE ON WESTBOUND SHADY GROVE ROAD, CHANGING THE EASTBOUND THROUGH LANE TO BE A RIGHT TURN ONLY LANE IN THE AM PEAK PERIOD AND TO BE A THROUGH/RIGHT TURN LANE IN THE PM PEAK PERIOD, AND INSTALLING PEDESTRIAN SIGNALS AND CROSSWALKS. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH

INTERSECTION OPERATION

THE EXISTING PHASING, CABINET AND CONTROLLER ARE TO BE UTILIZED.

THIS INTERSECTION CURRENTLY OPERATES IN A SEMI-ACTUATED MODE WITH EASTBOUND/WESTBOUND, SHADY GROVE ROAD SPLIT-PHASED.

PROJECT CONTACTS

MR. CHARLIE WATKINS DISTRICT ENGINEER (301) 513-7311

MR. AUGIE REBISH DISTRICT UTILITY ENGINEER (301) 513-7350

MR. MAJID SHAKIB ASSISTANT DISTRICT ENGINEER - TRAFFIC (301) 513-7358

MR. RICHARD L. DAFF. SR. CHIEF, TRAFFIC OPERATION (410) 787-7630

MR. RANDY BROWN ASSISTANT DISTRICT ENGINEER - MAINTENANCE (301) 513-7304

MR. ROBERT GONZALES (240) 777-8761

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY UNIT DESCRIPTION

SF SHEET ALUMINUM SIGN TO CONSIST OF:

- I EA D3-2 (VAR. x 16") - "Shady Grove RD" DUAL-FACE- MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

UANTITY	<u>UNIT</u>	DESCRIPTION
1	C.Y.	TEST PIT EXCAVATION
5	C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
25	LF	FURNISH AND INSTALL 4 IN. (SCHEDULE 80) PVC CONDUIT - TRENCHED
17	EA	FURNISH AND INSTALL TRAFFIC SIGNAL HEAD, 12 IN. SECTION - MAST ARM MOUNT
4	EA	FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD, 12 IN. SECTION - POLE MOUNT
2	EA	FURNISH AND INSTALL HANDHOLE
I	EA	FURNISH AND INSTALL 27 FT. STEEL MAST ARM POLE AND 70 FT. MAST ARM (BLACK - FEDERAL SPECIFICATION NUMBER 17038)
ı	EA	FURNISH AND INSTALL 250 WATT HPS LAMP AND LUMINAIRE (BLACK - FEDERAL SPECIFICATION NUMBER 17038)
I	EA	FURNISH AND INSTALL 20 FT. LIGHTING BRACKET FOR TRAFFIC SIGNAL STRUCTURE (BLACK - FEDERAL SPECIFICATION NUMBER 17038)
1	EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTONS AND RIO-4(I) SIGN PUSH BUTTON TO CROSS (FREDERICK ROAD)
90	LF	24 IN. WHITE TEMPORARY PREFORMED PAVEMENT MARKING TAPE
2	ĘΑ	FURNISH AND INSTALL DETECTOR CAMERA EQUIPMENT
1000	LF	FURNISH AND INSTALL COAXIAL CABLE AND 5 CONDUCTOR - NO.18 AWG CABLE © 500 L.F. PER CABLE PER UNIT.
2	EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTONS AND RIO-4(I) SING PUSHBUTTON TO CROSS (SHADY GROVE ROAD)
_		tu.

ADJUST HANDHOLE

EXISTING OPERATION SHALL BE UTILIZED

PHASE 1 & 5

1 & 5 CHANGE

PHASE 2 & 5

2 & 5 CHANGE

PHASE 2 & 6

2 & 6 CHANGE

PHASE 3

3 CHANGE

PHASE 4

4 CHANGE

FLASHING

OPERATION

⊕€€

--G--

---Y--

--R-

---R--

---R--

—R-

---R--

---R--

---R--

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---G--

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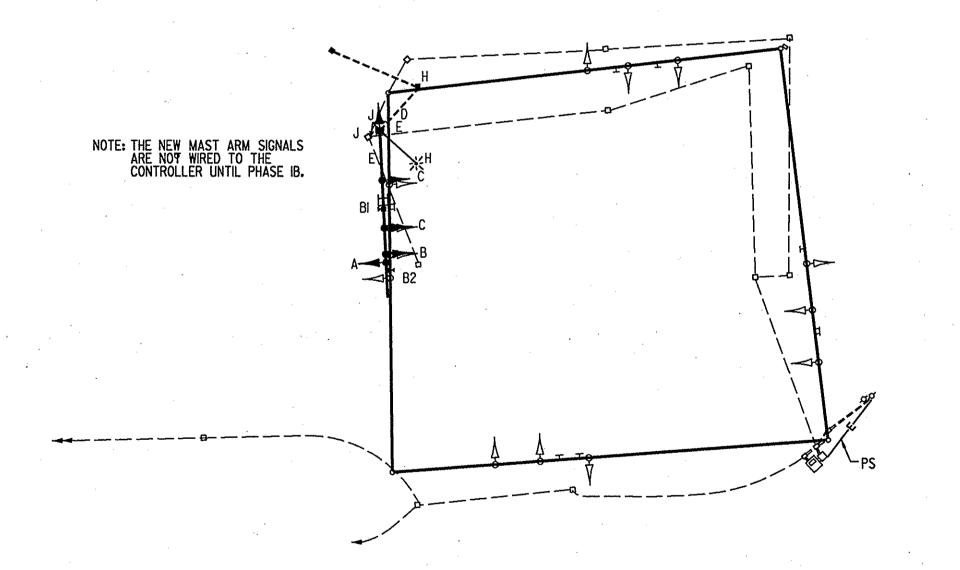
---R--

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FL/-R-FL/-R- | FL/Y

WIRING DIAGRAM



WIRING KEY

FL/Y

PHASING CHART

---G-/G

---Y-/Y

FL/Y

FL/Y

---G-/G

---Y-/Y

FL/Y

- 7-CONDUCTOR NO. 14 A.W.G.

R

R

—<u>G</u>

FL/R

FL/R

<u>-G</u>

FL/R

FL/R

<u>-G</u>

FL/R

G

FL/R

- 5-CONDUCTOR NO.14 A.W.G.

- 2-CONDUCTOR NO. 12 A.W.G. TRAY CABLE

- 3-CONDUCTOR NO. 18 A.W.G (PUSHBUTTON)

VIDEO CAMERA CABLE (INCLUDES COAXIAL CABLE AND 5-CONDUCTOR NO. 18 A.W.G.)

NOTE: ALL EXISTING WIRING REMAINS UNCHANGED IN PHASE IA

PS - POWER SERVICE

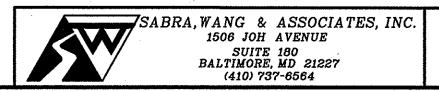
MAINTENANCE OF TRAFFIC SIGNAL - PHASE IA

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION. Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 355 AND SHADY GROVE ROAD





DRAWN BY:	į
CHECKED BY:	
SCALE:	
DATE:	L

F.A.P. NO. MONTGOMERY COUNTY: LOG MILE: 15035512.73

NO. GI 2382- ♠ SHEET NO. T.I.M.S. NO. 33 OF 55 C-895

[•] NOTE: ALL SIGNAL POLE STRUCTURES, LIGHTING ARMS, LUMINAIRES AND SIGNAL FACES SHALL BE BLACK IN COLOR (FEDERAL SPECIFICATION NUMBER 17038)